| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |   |  |  |  |  |  |
|-------------------------|---|---|--|--|--|--|--|
| 10/705,589              | ROSE, WILLIAM B.                        | _ |  |  |  |  |  |
| Examiner                | Art Unit                                |   |  |  |  |  |  |

| 1 | Rejected |   | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| Г | Interference |

Chi Q. Nguyen

| A | Appeal   |
|---|----------|
| 0 | Objected |

3635

|                |          |              |   |                |   |          | _            | _ `      |               |           |          |          |          |          |              |            |          |              |          |          |   |   |  |            |          |               |
|----------------|----------|--------------|---|----------------|---|----------|--------------|----------|---------------|-----------|----------|----------|----------|----------|--------------|------------|----------|--------------|----------|----------|---|---|--|------------|----------|---------------|
| Cla            | im       | L.           |   |                |   | Date     | -            |          |               | ]         | Cla      | aim      |          |          | $\equiv$     |            | Date     | -            |          |          |   |   | Cli  | aim        | $\Box$   |               |
| Final          | Original | 4/11/54      |   |                |   |          |              |          |               |           | Final    | Original | 7641/H   | ,        |              |            |          |              |          |          |   |   | Final  | Original   |          |               |
|                | 1        | Ξ            |   |                |   |          |              | П        | $\top$        | 1         |          | 51       | 7        |          |              |            |          |              |          |          |   |   |  | 101        |          |               |
|                | 2        | 1            |   |                |   |          |              | П        |               | 7         |          | 52       | П        |          |              |            |          |              |          |          |   |   |  | 102        |          |               |
|                | 3        | $\Pi$        |   |                |   |          |              | П        |               | 7         |          | 53       | П        |          |              |            |          |              |          |          |   |   |  | 103        |          |               |
|                | 4 5      | ÷            |   |                |   |          |              |          |               | ]         |          | 54       | 7        |          |              |            |          |              |          |          |   |   |  | 104        |          |               |
|                |          |              |   |                |   |          |              |          |               | ]         |          | 55       | П        |          |              |            |          |              |          |          |   |   |  | 105        |          |               |
|                | 6        | ۲            |   |                |   |          |              |          |               | ]         |          | 56       | Ш        |          |              |            |          |              |          |          |   |   |  | 106        |          |               |
|                | 7        | $\prod$      |   |                |   |          |              | Ш        |               | _         |          | 57       | Ш        |          |              | Ш          | Ш        | $oxed{oxed}$ | Щ        |          |   |   |  | 107        | Ш        |               |
| <u></u>        | 8        | Ш            |   |                |   |          |              | Ш        |               | 4         |          | 58       | Ш        |          |              |            |          |              |          | $\Box$   |   |   | <u> </u>   | 108        |          | _             |
| <u></u>        | 9        | Ш            |   |                |   | L_       |              | Ш        |               | 4         | <u></u>  | 59       | 11       | Щ        |              |            |          | Ŀ            |          | _        |   |   |  | 109        | _        | _             |
|                | 10       | Ц            |   |                |   | <u> </u> |              |          | _             | 4         | <u></u>  | 60       | ╨        | Н        |              | Н          | $\vdash$ | _            |          |          |   |   | <u> </u>   | 110        | Ш        | _             |
|                | 11       | Н            |   |                |   | <u> </u> |              | Н        | _             | 4         |          | 61       | 11-      | -        |              | $\vdash$   | Н        | _            |          |          |   |   | ļ  | 111        | Н        |               |
|                | 12       | Н            |   |                | _ | _        |              | Н        | $\dashv$      | ┨         | -        | 62       | ₩        | $\vdash$ |              | $\vdash$   |          |              | _        | _        |   |   | <u> </u>   | 112        |          | _             |
|                | 13       | Н            |   |                |   | <u> </u> | _            | Н        | -             | ┨         | <u> </u> | 63       | ₩        | Н        | _            | H          | Н        | $\vdash$     |          | _        |   |   | <u> </u>   | 113<br>114 | H        | _             |
|                | 14       | $\coprod$    |   | $\blacksquare$ |   | <u> </u> |              | Н        | -             | 4         |          | 64       | ₩        | $\vdash$ | _            | $\vdash$   | _        | _            | _        | _        | _ |   | <u> </u>   | 115        | -        |               |
|                | 15       | 1            |   |                | _ | -        |              | Н        | +             | 4         | -        | 65       | 1        | H        |              | Н          | $\vdash$ | <del> </del> | _        | •        |   |   | <u> </u>   | 116        | $\vdash$ |               |
| -              | 16<br>17 | -            | _ | _              |   | $\vdash$ | _            | Н        |               | ┨         | -        | 66<br>67 | 1-       | -        |              | H          | -        | H            | _        | -        |   |   | <del> </del>                                     | 117        | ⊢        | _             |
|                | 18       | ├-           | _ |                |   |          |              | Н        |               | -         | -        | 68       | ⊢        | $\vdash$ | _            | H          | $\vdash$ | $\vdash$     |          |          |   |   | <del> </del>                                     | 118        | $\vdash$ |               |
|                | 19       | H            | _ |                |   | ├─       | H            | Н        | +             | -         | $\vdash$ | 69       | ╁        | H        | _            | $\vdash$   | H        | -            |          | $\vdash$ | _ |   | $\vdash$   | 119        | $\vdash$ | _             |
| <u> </u>       | 20       | H            | - | $\dashv$       |   | $\vdash$ | $\vdash$     | Н        | +             | 1         |          | 70       | ┢        | -        | _            | -          | $\vdash$ | $\vdash$     |          | $\vdash$ |   |   | $\vdash$   | 120        |          | _             |
| <del>  -</del> | 21       | Η-           |   | $\dashv$       | _ | H        | <del> </del> | Н        |               | ┨         |          | 71       | ╁╌       | ╌        |              | -          | $\vdash$ | $\vdash$     |          |          |   |   | $\vdash$   | 121        |          |               |
|                | 22       | ┝            |   | $\dashv$       | - | H        | -            | Н        |               | 1         |          | 72       | $\vdash$ | $\vdash$ |              | _          | $\vdash$ | Н            |          |          |   |   |  | 122        |          | _             |
| -              | 23       | <del> </del> |   |                |   | ┢        |              | Н        |               | 1         |          | 73       | ╁        | $\vdash$ |              | $\vdash$   |          |              |          |          |   |   |  | 123        |          |               |
| -              | 24       | $\vdash$     |   | $\dashv$       |   | Ι        |              | Н        |               | 1         |          | 74       | T        | Г        |              |            | $\vdash$ | Г            |          |          |   |   |  | 124        |          |               |
|                | 25       | T            |   | $\neg$         |   | $\vdash$ |              | П        |               | 1         |          | 75       |          |          |              |            |          |              |          |          |   | 1 |  | 125        |          |               |
|                | 26       | ÷            |   |                |   | $\Box$   |              |          |               | 1         |          | 76       | Π        | Г        |              |            |          |              |          |          |   |   |  | 126        |          |               |
| -              | 27       | Ħ            |   |                |   |          |              |          | $\neg \vdash$ | 7         |          | 77       | П        | П        |              |            |          |              |          |          |   | j |  | 127        |          |               |
|                | 28       | П            |   |                |   |          |              | П        |               | 7         |          | 78       | П        | Γ        |              |            |          |              |          |          |   |   |  | 128        |          |               |
|                | 29       | ÷            |   |                |   |          |              | П        |               | 7         |          | 79       | П        |          |              |            |          |              |          |          |   |   |  | 129        |          |               |
|                | 30       |              |   |                |   |          |              |          |               | ]         |          | 80       |          |          |              |            |          |              |          |          |   |   |  | 130        | Ĺ        |               |
|                | 31       | ÷            |   |                |   |          |              |          |               | ]         |          | 81       |          |          |              |            |          |              |          |          |   |   |  | 131        | L        | _             |
|                | 32       | <u></u>      |   |                |   |          |              |          |               | ]         |          | 82       |          |          |              |            |          |              |          |          |   |   |  | 132        |          | _             |
|                | 33       | П            |   |                |   | L        | L            |          |               | ┨.        |          | 83       | 乚        | _        | <u> </u>     |            |          |              |          |          |   |   |  | 133        | _        |               |
|                | 34       | Ц            |   |                |   |          |              | Ш        |               | ╛         |          | 84       | <u> </u> |          | _            | lacksquare | Щ        |              |          |          |   |   |  | 134        |          | _             |
|                | 35       | Ц            |   |                |   | _        | _            |          | $\perp$       | 4         |          | 85       | _        | _        | L_           |            | _        | _            |          | Щ        |   |   | <b>⊢</b> —                                       | 135        |          | -             |
|                | 36       | Н            |   | _              |   | _        |              | Ш        | _             | 4         | <u> </u> | 86       | ┞        | _        | <u> </u>     |            | _        | L            |          |          |   |   | <b> </b>   | 136        | _        | $\vdash$      |
|                | 37       | Н            |   | $\blacksquare$ |   | _        | -            | $\vdash$ | $\dashv$      | 4         | <u> </u> | 87       | <u> </u> |          | _            |            |          | -            |          | Ш        |   |   |  | 137        | H        | $\vdash$      |
|                | 38       | Н            |   | -              |   | L        | _            | Н        | _             | -         | -        | 88       | ┡        | _        | <u> </u>     | -          | -        | _            | _        |          |   |   |  | 138<br>139 | -        | $\vdash$      |
|                | 39<br>40 | H            |   | $\vdash$       |   | <u> </u> | -            | Н        | +             | -         |          | 89<br>90 | ⊢        | $\vdash$ | ┝            | $\vdash$   | -        | _            | _        | _        |   |   | <del>                                     </del> | 140        | $\vdash$ | -             |
| $\vdash$       | 41       | H            |   | $\dashv$       | _ |          |              | Н        |               | ┨         | -        | 91       | ├        | $\vdash$ | ┝┈           | ┝          | -        | <del> </del> | -        | -        |   | - | <del> </del>                                     | 141        | H        | _             |
| -              |          | ╁╂           |   | $\dashv$       |   |          |              | Н        |               | ┨         | $\vdash$ | 92       | ╁        | $\vdash$ | ┝            | H          | $\vdash$ |              | -        | Н        |   |   |  | 142        | $\vdash$ | $\vdash$      |
| -              | 42       | H            |   | $\dashv$       |   | $\vdash$ |              | Н        | +             | ┨         | <b>—</b> | 93       | ╁        | -        | <del> </del> | -          | $\vdash$ | $\vdash$     | $\vdash$ | Н        |   | l |  | 143        | $\vdash$ | $\overline{}$ |
|                | 44       | H            | - | $\dashv$       |   | $\vdash$ | $\vdash$     | Н        | +             | 1         | $\vdash$ | 94       | +-       | -        | $\vdash$     | -          | H        | -            | $\vdash$ | $\vdash$ | - | l | <del> </del>                                     | 144        | H        | Т             |
| -              | 45       | +            |   | $\dashv$       | Н | $\vdash$ | $\vdash$     | Н        | $\dashv$      | $\exists$ | -        | 95       | $\vdash$ | -        | <del> </del> | -          |          | $\vdash$     | $\vdash$ | Н        |   |   | <b></b>  | 145        |          | Г             |
| -              | 46       | H            |   | -              |   | $\vdash$ | -            | Н        | _             | ┨         |          | 96       | $\vdash$ | $\vdash$ | $\vdash$     |            | -        | $\vdash$     | Н        | $\vdash$ | - | ł | <b>-</b>   | 146        | $\vdash$ |               |
|                | 47       | ++           |   | $\vdash$       | - | -        | $\vdash$     | Н        | $\dashv$      | 1         |          | 97       | t        |          | $\vdash$     |            |          | $\vdash$     |          | Н        | - |   |  | 147        | П        | Г             |
|                | 48       | H            |   | $\vdash$       |   | $\vdash$ | $\vdash$     | H        | +             | 1         |          | 98       | $\vdash$ |          | <u> </u>     | -          |          | $\vdash$     | $\vdash$ | Н        | _ |   |  | 148        | <u> </u> | Г             |
|                | 49       | H            | - |                |   | $\vdash$ | $\vdash$     | H        | $\dashv$      | 1         |          | 99       | 1        |          | $\vdash$     | <u> </u>   |          |              | П        | Н        | _ |   |  | 149        | П        | Г             |
| <u> </u>       | 50       | 1            |   |                |   | П        |              | П        |               | 1         |          | 100      |          |          |              |            |          |              |          |          |   |   |  | 150        |          |               |
|                |          |              |   |                |   |          |              |          |               | _         |          |          |          |          |              |            |          |              |          |          |   |   |  |            |          |               |

| Cla          | aim_              | Г  |  |  |   | Date         |                   |              |          |          |
|--------------|-------------------|--|--|--|---|--------------|-------------------|--------------|----------|----------|
|              |                   |  |  |  |   |              |                   |              |          |          |
| Final        | Original          |  |  |  |   |              |                   |              |          |          |
|              | 101               |  |  |  |   |              |                   |              |          |          |
|              | 101<br>102        |  |  | Ш  |   |              |                   |              |          |          |
| L            | 103               |  |  |  |   |              |                   |              |          |          |
|              | 104<br>105        |  | _  | $oxed{oxed}$                                     |   |              |                   |              | Ш        |          |
|              | 105               | <u> </u>   |  | _  |   | _            |                   |              | Ш        |          |
| <u> </u>     | 106               | _  | <u> </u>   | _  |   |              |                   | Ŀ            |          |          |
| $\vdash$     | 107<br>108        | ┝  | $\vdash$   | $\vdash$   | _   |              | _                 | -            |          |          |
| $\vdash$     | 109               | $\vdash$   | -  |  | -   | -            |                   | H            | -        | -        |
| <del> </del> | 110               |  | $\vdash$   | -  |   | -            | _                 | ⊢            | Н        | $\dashv$ |
|              | 111               | $\vdash$   | $\vdash$   |  | _   |              |                   |              |          | $\dashv$ |
|              | 112               | Г  |  |  |   |              |                   |              |          |          |
|              | 113               |  |  |  |   |              |                   |              |          |          |
|              | 114               |  |  |  |   |              |                   |              |          |          |
|              | 115               |  | _  |  | $ldsymbol{le}}}}}}$ |              |                   | $oxed{oxed}$ | Ш        | $\Box$   |
|              | 116               | <u> </u>   | <u> </u>   | _  |   | _            |                   | _            |          | $\dashv$ |
| <u> </u>     | 117               | <u> </u>   | ⊢  | <u> </u>   | <u> </u>  | _            | _                 | _            |          | -        |
|              | 118<br>119        | H  | ⊢  | ┝  | $\vdash$  | -            |                   | H            | -        |          |
| <u> </u>     | 119               | $\vdash$   | -  | $\vdash$   | $\vdash$  | H            | -                 | ┝            | -        | -        |
| _            | 120<br>121<br>122 | -  | -  | -  | H   | -            | $\vdash$          | ┝            | ┝        | Н        |
| _            | 122               | -  | -  | $\vdash$   | $\vdash$  | _            | $\vdash$          | ┢            | $\vdash$ | Н        |
|              | 123               | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |   |              |                   | $\vdash$     |          | $\neg$   |
|              | 123<br>124        |  |  | $\vdash$   |   |              |                   | $\vdash$     |          |          |
|              | 125               |  |  |  |   |              |                   |              |          |          |
|              | 126               |  |  |  |   |              |                   |              |          |          |
|              | 126<br>127<br>128 |  | <u> </u>   | _  | L   | Ш            | L                 | <u> </u>     |          |          |
| <u> </u>     | 128               |  | <u> </u>   | <u> </u>   | _   | L            | <u> </u>          | <u> </u>     | _        | Н        |
|              | 129<br>130        | -  | <del> </del>                                     | -  |   | <u> </u>     | <del> </del>      | ⊢            | -        |          |
| -            | 130               | ⊢  | -  | ⊢  | $\vdash$  |              | ┝                 | ⊢            | $\vdash$ | -        |
| -            | 131<br>132        | $\vdash$   |  | ┢  | $\vdash$  | <del> </del> | $\vdash$          | ┢╼           | -        |          |
|              | 133               | $\vdash$   | -  | $\vdash$   | H   | _            | $\vdash$          | ┢┈╴          |          |          |
| _            | 134               | 1  |  | H  |   | $\vdash$     | Г                 | Т            |          |          |
|              | 135               |  |  |  |   |              |                   |              |          |          |
|              | 136               |  |  |  |   |              |                   |              |          |          |
|              | 137<br>138        |  |  |  |   |              |                   |              |          |          |
|              | 138               | <u> </u>   | _  | _  | _   | L_           | $ldsymbol{f eta}$ | <u> </u>     |          |          |
| L            | 139               | ldash  |  | <b>—</b>   | $\vdash$  | <u> </u>     | ┞                 | <u> </u>     | <u> </u> | Ш        |
|              | 140               | <u> </u>   | ⊢  | ⊢  | $\vdash$  | <u> </u>     | $\vdash$          | ⊢            | <u> </u> | Н        |
| -            | 141<br>142        | -  | -  | ├-   | $\vdash$  |              | ├                 |              | $\vdash$ | Н        |
|              | 143               | $\vdash$   | $\vdash$   | -  | $\vdash$  | $\vdash$     | $\vdash$          | $\vdash$     | $\vdash$ | Н        |
|              | 144               | $\vdash$   | $\vdash$   | -  | $\vdash$  | $\vdash$     | $\vdash$          | $\vdash$     | -        | Н        |
|              | 145               |  | _  | _  | $\vdash$  | Н            | $\vdash$          | $\vdash$     | $\vdash$ | Н        |
| <b>—</b>     | 146               | Т  | T  | T  | 一   | $\vdash$     |                   | Т            | T        | М        |
|              | 147               | Г  | T  |  |   | Г            |                   | Г            |          |          |
|              | 148               |  |  |  |   |              |                   |              |          |          |
|              | 149               |  |  |  |   |              |                   |              |          |          |
|              | 150               |  |  |  |   |              |                   |              | L        |          |
|              |                   |  |  |  |   |              | _                 |              |          |          |